

Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300, of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name: Southeastern Public Service Authority of Virginia
Facility Name: SPSA Municipal Waste Combustor Facilities
Facility Location: 3809 Elm Avenue
Portsmouth, Virginia 23704-7101
Registration Number: 61018
Permit Number: TRO-61018

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act (Sections I through X)
State Only Enforceable Requirements (Section XI)

February 4, 2008
Effective Date

February 3, 2013
Expiration Date

Maria R. Nold
Deputy Regional Director

February 4, 2008
Signature Date

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I. Facility Information

Permittee

Southeastern Public Service Authority of Virginia
723 Woodlake Drive
Chesapeake, VA 23320-7463

Responsible Official

John S. Hadfield
Executive Director

Facility

SPSA Municipal Waste Combustor Facilities
3809 Elm Avenue
Portsmouth, VA 23704-7101

Contact Person

Scott D. Whitehurst
Superintendent of Environmental Management
(757) 393-3100

County-Plant Identification Number: 51-740-00078

Facility Description:

NAICS numbers: 562213 and 562219 (Waste management), 221330 (Steam Generation), 221119 (Other electrical generation), 924110 (Administration)

Waste is received on the Refuse Derived Fuel (RDF) plant tipping floor and separated into processable and non-processable waste. Processable bulky waste is diverted to the bulky waste shredder for shredding to manageable sizing. This waste is then introduced back on the tipping floor. All processable waste is then introduced to 3 process lines, each with a shredder, where sorting, sizing and separation of ferrous metal takes place through a series of trommels, magnets, and hand picking stations. Waste is then loaded onto the RDF transfer conveyor where it is conveyed to the steam plant for combustion.

The steam plant consists of four combustion trains in which refuse derived fuel (RDF), coal or oil is combusted to produce steam and electricity. The primary fuels burned are RDF and coal. The four combustion trains are independent but can operate simultaneously. Each combustion train consists of a boiler, a spray dryer absorber (SDA), and a fabric filter (FF). The units utilize the SDA and FF, as well as good combustion practices (GCP), to reduce the levels of Municipal Waste Combustor (MWC) organics (dioxins/furans), MWC acid gases (sulfur dioxide and hydrogen chloride), MWC metals (particulate matter, opacity, cadmium, lead, and mercury), and carbon monoxide prior to exhausting through the stack. Each combustion train is also equipped with a No. 2 fuel oil-fired burner which provides heat during unit startup and shutdown.

Coal is unloaded and transferred to storage or directly to the boilers for combustion via a set of enclosed conveyors. The four transfer points of the conveyor system, as well as the conical for each unit, are equipped with fabric filters to control particulate emissions generated during the transfer process. In addition, the facility operates a diesel-fired standby generator, an auxiliary boiler, two No. 2 fuel oil storage tanks, a lime silo, an ash conveyor (with negligible emissions), and truck traffic, as well as a number of insignificant activities.

[illegible]

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
048	-	Open Coal Storage	15,000 ton	Wet Suppression System (WSS)	WSS	PM	8/20/03
101	101	Coal conveying system, coal unloading area	100 tons/hr	Fabric Filter - Johnson-Marsh Company	FF-101	PM	8/20/03
102	102	Coal conveying system, transfer point No. 1	100 tons/hr	Fabric Filter - Johnson-Marsh Company	FF-102	PM	8/20/03
103	103	Coal conveying system, transfer point No. 2	100 tons/hr	Fabric Filter - Johnson-Marsh Company	FF-103	PM	8/20/03
104	104	Coal conveying system, transfer to coal silo	100 tons/hr	Fabric Filter - Johnson-Marsh Company	FF-104	PM	8/20/03
105	105	Coal conveying system, transfer to conical for boiler No. 1	100 tons/hr	Fabric Filter - Johnson-Marsh Company	FF-105	PM	8/20/03
106	106	Coal conveying system, transfer to conical for boiler No. 2	100 tons/hr	Fabric Filter - Johnson-Marsh Company	FF-106	PM	8/20/03
107	107	Coal conveying system, transfer to conical for boiler No. 3	100 tons/hr	Fabric Filter - Johnson-Marsh Company	FF-107	PM	8/20/03
108	108	Coal conveying system, transfer to conical for boiler No. 4	100 tons/hr	Fabric Filter - Johnson-Marsh Company	FF-108	PM	8/20/03
RDF Handling							
200	-	Tipping Floor	200 ton/hr	Buffalo Filters	B1-5	PM / PM-10	5/29/96
201	201	Bulky Waste Shredding	40 ton/hr	Fabric Filter - J. S. Gray	FF-201	PM / PM-10	5/29/96
202a1	202a1	RDF Process Line A Shredder	200 ton/hr	Fabric Filter - MAC Equipment Inc. Model #96-MWP212-141	FF-202A1	PM / PM-10	5/29/96
202a2	202a2	RDF Process Line A Systems	200 ton/hr	Fabric Filter - MAC Equipment Inc. Model #120-MWP252-189	FF-202A2	PM / PM-10	5/29/96
202b1	202b1	RDF Process Line B Shredder	200 ton/hr	Fabric Filter -	FF-202B1	PM / PM-10	5/29/96

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
				MAC Equipment Inc. Model #96-MWP212-141			
202b2	202b2	RDF Process Line B Systems	200 ton/hr	Fabric Filter - MAC Equipment Inc. Model #120-MWP252-189	FF-202B2	PM / PM-10	5/29/96
202c1	202c1	RDF Process Line C Shredder	200 ton/hr	Fabric Filter - MAC Equipment Inc. Model #96-MWP212-141	FF-202C1	PM / PM-10	5/29/96
202c2	202c2	RDF Process Line C Systems	200 ton/hr	Fabric Filter - MAC Equipment Inc. Model #120-MWP252-189	FF-202C2	PM / PM-10	5/29/96
203	203	RDF conveyor	200 ton/hr	-	-	-	5/29/96
Miscellaneous							
111	111	Ash conveyor	30 ton/hr	Fabric Filter	-	-	
112	112	Lime silo	125 ton	Fabric Filter	FF-112	PM / PM-10	8/20/03
113	-	Truck Traffic at Steam Plant	25 trucks/day	-	-	-	8/20/03
206	-	Truck Traffic at RDF Plant	200 trucks/day	-	-	-	8/20/03
207	207	RDF Fire Pump Diesel Engine	290 HP	-	-	-	
128	128	SPP Fire Pump Diesel Engine	290 HP	-	-	-	

*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

III. Fuel Burning Equipment Requirements

The fuel burning equipment associated with this section of the permit consists of the following emission units: 044, 045, 046, 047, 049 and 100.

A. Limitations

1. Particulate emissions and acid gases from each boiler (044, 045, 046 and 047) shall be controlled by a spray dryer absorber and a fabric filter in series. The absorbers and fabric filters shall be provided with adequate access for inspection and shall be in operation when the associated boiler is operating.
(9 VAC 5-80-110 and Condition 3 of 8/20/03 Permit)
2. Each spray dryer absorber shall be equipped with a water/lime slurry injection flow meter. Each fabric filter shall be equipped with a device to continuously measure the differential pressure drop across the fabric filter. Each monitoring device shall be installed and maintained in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations.
(9 VAC 5-80-110 and Condition 5 of 8/20/03 Permit)
3. Each of the RDF boilers (044, 045, 046 and 047) shall consume no more than 4,375 tons of coal per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-110 and Condition 12 of 8/20/03 Permit)
4. Each of the RDF boilers (044, 045, 046 and 047) shall consume no more than 94,000 gallons of No. 2 fuel oil per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-110 and Condition 13 of 8/20/03 Permit)
5. Each of the RDF boilers (044, 045, 046 and 047) shall consume no more than 625 gallons/hour of No. 2 fuel oil averaged daily.
(9 VAC 5-80-110 and Condition 14 of 8/20/03 Permit)
6. The throughput of Non-Hazardous Solid Waste to the four RDF boilers combined (044, 045, 046 and 047) shall not exceed 40,000 tons per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-110 and Condition 15 of 8/20/03 Permit)
7. The auxiliary boiler (049) shall not operate more than 876 hours per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-110 and Condition 16 of 8/20/03 Permit)
8. The generator (100) shall not operate more than 300 hours per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-110 and Condition 17 of 8/20/03 Permit)
9. The approved fuels for the boilers (044, 045, 046 and 047) are Refuse Derived Fuel (RDF), coal, No. 2 fuel oil and Non-Hazardous Solid Waste. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 18 of 8/20/03 Permit)
10. The approved fuel for the auxiliary boiler (049) is No. 2 fuel oil. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 19 of 8/20/03 Permit)
11. The approved fuel for the generator (100) is No. 2 fuel oil. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 20 of 8/20/03 Permit)

12. The No. 2 fuel oil, coal, RDF and Non-Hazardous Solid Waste shall meet the specifications below:

OIL which meets ASTM D396 specifications for numbers 1 or 2 fuel oil, and the following:

Maximum sulfur content per shipment:	0.05%
Maximum nitrogen content per shipment	0.3%

COAL:

Maximum sulfur content per shipment:	0.83%
Maximum ash content per shipment:	18.0%

RDF: Refuse Derived Fuel for the purpose of this permit shall be a type of municipal solid waste produced by processing municipal solid waste through shredding and size classification.

MSW: Municipal solid waste means household, commercial/retail, and/or institutional waste.

Non-Hazardous Solid Waste shall include solid waste that is in liquid form.

(9 VAC 5-80-110, 40 CFR 60.41b, and Condition 22 of 8/20/03 Permit)

13. The permittee shall obtain a certification from the fuel supplier with each shipment of No. 2 fuel oil. Each fuel supplier certification shall include the following:

- a. The name of the fuel supplier,
- b. The date on which the oil was received,
- c. The volume of oil delivered in the shipment, and
- d. A statement that the oil complies with the American Society for Testing and Materials specifications D396 for numbers 1 and 2, fuel oil.

(9 VAC 5-80-110, 40 CFR 60.41b, 60.44b(j) and Condition 23 of 8/20/03 Permit)

14. In the event that the nitrogen content of the No. 2 fuel oil is not tested by the supplier, the permittee must sample and test each above ground storage tank, listed in Section II of this permit, once each month, if a shipment of fuel oil was received. The sampling and testing methods are to be arranged with the Director, Tidewater Regional Office.

(9 VAC 5-80-110 and Condition 24 of the 8/20/03 Permit)

15. The permittee shall obtain a certification from the fuel supplier with each shipment of coal. Each fuel supplier certification shall include the following:

- a. The name of the fuel supplier,
- b. The date on which the coal was received, and
- c. The sulfur content and the ash content per shipment.

(9 VAC 5-80-110, 40 CFR 60.49b and Condition 25 of the 8/20/03 Permit)

16. Each boiler shall measure the steam load level and produce no more than 110% of the maximum steam load measured during the most recent dioxin/furan test performed on each boiler. Each boiler shall measure the inlet temperature of the flue gas to the last control device. The temperature of the flue gas measured at the inlet to the last control device shall not exceed 17° C above the maximum temperature measured during the most recent dioxin/furan test for that unit.

(9 VAC 5-80-110, 40 CFR 60.53b(b), 40 CFR 60.58b(i)(6) and Condition 26 of the 8/20/03 Permit)

17. Emissions from the operation of each boiler (044, 045, 046 and 047) during the combustion of RDF shall not exceed the limits specified below:

Pollutant	Limit prior to April 28, 2009	Limit on or after April 28, 2009	Hourly Limit
Particulate Matter	27 mg/dscm @ 7% O ₂	25 mg/dscm @ 7% O ₂	15 lbs/hr
Sulfur Dioxide	29 ppmv @ 7% O ₂ or 75% reduction by weight corrected to 7% O ₂ , whichever is less stringent	29 ppmv @ 7% O ₂ or 75% reduction by weight corrected to 7% O ₂ , whichever is less stringent	274 lbs/hr
Nitrogen Dioxide	250 ppmv @ 7% O ₂	250 ppmv @ 7% O ₂	160 lbs/hr
Carbon Monoxide	250 ppmv @ 7% O ₂	250 ppmv @ 7% O ₂	113 lbs/hr
Volatile Organic Compounds	0.07 lbs/mmBtu	0.07 lbs/mmBtu	15 lbs/hr
Cadmium	0.040 mg/dscm (18 gr/10 ⁶ dscf)	0.035 mg/dscm (15.7 gr/10 ⁶ dscf)	-
Lead	0.440 mg/dscm (196 gr/10 ⁶ dscf)	0.400 mg/dscm (178 gr/10 ⁶ dscf)	-
Mercury	0.080 mg/dscm (35 gr/10 ⁶ dscf) or 85% reduction by weight corrected to 7% O ₂ , whichever is less stringent	0.050 mg/dscm (21.9 gr/10 ⁶ dscf) or 85% reduction by weight corrected to 7% O ₂ , whichever is less stringent	-
Hydrogen Fluoride	-	-	1.6 lbs/hr
Hydrogen Chloride	29 ppmv @ 7% O ₂ or 95% removal efficiency whichever is less stringent.	29 ppmv @ 7% O ₂ or 95% removal efficiency whichever is less stringent.	150 lbs/hr
Dioxin/Furan (Total Mass)	30 ng/dscm @ 7% O ₂	30 ng/dscm @ 7% O ₂	-

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers A.12, B.1, B.3, D.2, and D.3.

(9 VAC 5-80-110, 40 CFR 60.33b, 40 CFR 60.34b, and Condition 27 of 8/20/03 Permit)

18. Emissions from the operation of each boiler (044, 045, 046 and 047) during the combustion of coal shall not exceed the limits specified below:

Particulate Matter	-	0.05 lbs/mmBtu (24 hour avg.)	15 lbs/hr
Sulfur Dioxide	491 ppm @ 7%O ₂	1.20 lbs/mmBtu (24 hour avg.)	274 lbs/hr
Nitrogen Dioxide	342 ppm @ 7%O ₂	0.60 lbs/mmBtu (24 day avg.)	160 lbs/hr
Carbon Monoxide	496 ppm @ 7%O ₂	0.53 lbs/mmBtu (24 hour avg.)	113 lbs/hr
Volatile Organic Compounds	-	0.07 lbs/mmBtu (24 hour avg.)	15 lbs/hr
Hydrogen Fluoride	-	-	1.6 lbs/hr
Hydrogen Chloride	-	-	150 lbs/hr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers A.12, B.1, B.3, D.2, and D.3.

(9 VAC 5-80-110, 40 CFR60.42b, 60.43b, 60.44b and Condition 28 of 8/20/03 Permit)

19. Emissions from the operation of each boiler (044, 045, 046 and 047) during the combustion of No. 2 fuel oil shall not exceed the limits specified below:

Particulate Matter	-	0.07 lbs/mmBtu (24 hour avg.)	15 lbs/hr
Sulfur Dioxide	523 ppm @ 7%O ₂	1.20 lbs/mmBtu (24 hour avg.)	274 lbs/hr
Nitrogen Dioxide	364 ppm @ 7%O ₂	0.60 lbs/mmBtu (24 hour avg.)	160 lbs/hr
Carbon Monoxide	528 ppm @ 7%O ₂	0.53 lbs/mmBtu (24 hour avg.)	113 lbs/hr
Volatile Organic Compounds	-	0.07 lbs/mmBtu (24 hour avg.)	15 lbs/hr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers A.12, B.1, B.3, D.2, and D.3.

(9 VAC 5-80-110 and Condition 29 of 8/20/03 Permit)

20. Emissions from the operation of each boiler (044, 045, 046 and 047) shall not exceed the limits specified below:

Particulate Matter	49 tons/yr
Sulfur Dioxide	914 tons/yr
Nitrogen Oxides (as NO ₂)	533 tons/yr
Carbon Monoxide	368 tons/yr
Volatile Organic Compounds	49 tons/yr
Hydrogen Fluoride	7.1 tons/yr
Hydrogen Chloride	600 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Annual emissions shall be determined as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. Compliance with these emission limits may be determined as stated in Condition numbers A.3, A.4, A.5, A.6, A.12, B.1, B.3, D.2, and D.3.
(9 VAC 5-80-110 and Condition 30 of 8/20/03 Permit)

21. Emissions from the operation of the auxiliary boiler (049) shall not exceed the limits specified below:

Particulate Matter	2.1 lbs/hr	0.9 tons/yr
Sulfur Dioxide	8.1 lbs/hr	3.6 tons/yr
Nitrogen Oxides (as NO ₂)	15.2 lbs/hr	6.7 tons/yr
Carbon Monoxide	5.2 lbs/hr	2.3 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Annual emissions shall be determined as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. Compliance with these emission limits may be determined as stated in Condition number 7, 10 and 13 of this section.
(9 VAC 5-50-260 and Condition 32 of 8/20/03 Permit)

22. Emissions from the operation of the generator (100) shall not exceed the limits specified below:

Carbon Monoxide	20.5 lbs/hr	3.1 tons/yr
Nitrogen Oxides (as NO ₂)	89.4 lbs/hr	13.4 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Annual emissions shall be determined as the sum of each consecutive 12-month period. Compliance with these emission limits may be determined as stated in Condition number 8, 11 and 13 of this section.
(9 VAC 5-80-110 and Condition 33 of 8/20/03 Permit)

23. Visible emissions from each boiler (044, 045, 046 and 047) shall not exceed 10% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A. This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-110, 40 CFR 60.33b and Condition 34 of 8/20/03 Permit)

24. Visible emissions from the generator (100) shall not exceed 10% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-110, 40 CFR 60.33b and Condition 34 of 8/20/03 Permit)
25. Visible emissions from the auxiliary boiler (049) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 27% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-110, 40 CFR 60.43b(f) and Condition 35 of 8/20/03 Permit)
26. Except where this permit is more restrictive than the applicable requirement, the NSPS equipment as described in Section II shall be operated in compliance with the requirements of 40 CFR 60, Subparts Db and Cb, as applicable.
(9 VAC 5-80-110 and Condition 41 of 8/20/03 Permit)

B. Monitoring and Recordkeeping

1. For each boiler (044, 045, 046 and 047) Continuous Emission Monitoring Systems (CEMS), meeting the design specifications of 40 CFR Part 60, Appendix B, shall be installed to measure and record the emissions of SO₂ and NO_x, from the flue in each stack and CO at the boiler outlet as ppmv corrected to 7% O₂. Process monitoring equipment shall be installed to measure steam load and temperature at the inlet device for each fabric filter. Each boiler shall be equipped with a device to continuously measure and display the oxygen content in the flue gas from the point where the CEMS is getting its sample. The CEMS shall be installed, calibrated, maintained, audited and operated in accordance with the requirements of 40 CFR 60.58b (referenced from 60.38b) and 40 CFR Part 60, Appendices B and F.
(9 VAC 5-80-110, 40 CFR 60.58b and Condition 8 of 8/20/03 Permit)
2. For each boiler (044, 045, 046 and 047) Continuous Opacity Monitoring Systems (COMS), meeting the design specifications of 40 CFR Part 60, Appendix B, shall be installed to measure and record the opacity of emissions from the flue in each stack. The COMS shall be installed, calibrated, maintained and operated in accordance with the requirements of 40 CFR 60.13 of Subpart A. Data shall be reduced to six minute averages.
(9 VAC 5-80-110, 40 CFR 60.58b, and Condition 9 of 8/20/03 Permit)
3. A CEMS/COMS quality control program which meets the requirements of 40 CFR 60.13 and 40 CFR Part 60, Appendices B & F shall be implemented for all continuous monitoring systems.
(9 VAC 5-80-110, 40 CFR 60.58b (referenced from 40 CFR 60.38b), 40 CFR Part 60, Appendix F, and Condition 10 of the 8/20/03 Permit)
4. The permittee shall perform periodic visual evaluations of the generator (100) once each time the unit is operating for compliance with opacity standards. If such periodic evaluations indicate any opacity condition, the permittee shall take appropriate action to correct the cause of the opacity such that no visible emissions exist. If such corrective action fails to correct the problem, the permittee shall conduct a visible emissions evaluation (VEE) utilizing EPA Method 9 (reference 40 CFR 60, Appendix A). The permittee shall maintain a log to demonstrate compliance with this condition. The log shall include the date and times of the observations, the observer's name, whether or not there were visible emissions, any VEE recordings and any necessary corrective action. If the equipment has not been operated during the week, it shall be noted in the logbook that the equipment was not operated and that a visual observation was not required. The logbook shall be kept at the facility and available for inspection by the DEQ for the most recent 5 year period.
(9 VAC 5-80-110 E)

5. At least once during each daylight shift when the auxiliary boiler (049) is operating, an observer certified in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A) will perform a 6-minute visible emission observation consisting of 24 consecutive readings of the stack for the auxiliary boiler. If the average opacity for a 6-minute set of readings made in accordance with the above exceeds 10%, the observer will collect two additional 6-minute sets of visible emission readings for a total of three data sets. Results from these observations will be recorded in a log book, listing the date and time of each visible emission observation and the resulting opacity.
(9 VAC 5-80-110 and Condition 38 of the 8/20/03 Permit)
6. The annual capacity factor for the No. 2 fuel oil being burned in the auxiliary boiler (049) shall not exceed 10%. The annual capacity factor shall be determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.
(9 VAC 5-80-110, 40 CFR 60.44b(j)(3), 40 CFR 60.49b(d) and Condition 40 of 8/20/03 Permit)
7. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater regional Office. These records shall include, but are not limited to:
 - a. Monthly and annual hours of operation for the auxiliary boiler (049). Annual hours of operation shall be calculated monthly as the sum of each consecutive 12-month period.
 - b. Hourly, monthly and annual throughput of No. 2 fuel oil (in 1000 gallons) for each RDF boiler (044, 045, 046 and 047). Annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.
 - c. The monthly and annual throughput of coal (in tons) for the 044, 045, 046, 047 boilers. The annual throughput shall be calculated as the sum of each consecutive 12-month period.
 - d. Monthly and annual hours of operation of the generator (100). Annual hours of operation shall be calculated monthly as the sum of each consecutive 12-month period.
 - e. Monthly and annual throughput of Non-Hazardous Solid Waste for the 044, 045, 046, 047 boilers. The annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.
 - f. Monthly and annual calculated emissions from the 044, 045, 046, 047 boilers while burning RDF. Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period.
 - g. Monthly records of steam load and inlet temperature to the last control device for the 044, 045, 046, 047 boilers.
 - h. Continuous monitoring system calibrations and calibration checks, and excess emissions.
 - i. All CEMS and COMS data.
 - j. All fuel supplier certifications
 - k. Records of the nitrogen content of the oil. Average fuel nitrogen content shall be calculated monthly as the sum of each consecutive 12-month period.
 - l. Daily fuel firing rate of No. 2 fuel oil for each RDF boiler (044, 045, 046 and 047) in gal/hour.
 - m. Annual capacity factor records for the auxiliary boiler (049). The annual capacity factor shall be determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.
 - n. Hourly steam load records for the auxiliary boiler (049).

- o. The opacity readings for the auxiliary boiler (049).

Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. These records shall be available on site for inspection by the DEQ and shall be current for the most recent 5 years.

(9 VAC 5-80-110 and Condition 42 of the 8/20/03 Permit)

C. Reporting

1. The permittee shall furnish written reports to the Director, Tidewater Regional Office of excess emissions from any process monitored by a continuous monitoring system (COMS/CEMS) on a quarterly basis, postmarked no later than the 30th day following the end of the calendar quarter. These reports shall include, but are not limited to the following information:
 - a. The magnitude of excess emissions, any conversion factors used in the calculation of excess emissions, and the date and time of commencement and completion of each period of excess emissions;
 - b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the process, the nature and cause of the malfunction (if known), the corrective action taken or preventative measures adopted;
 - c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and
 - d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in that report.(9 VAC 5-80-110, 40 CFR 60.7(c) and Condition 44 of the 8/20/03 Permit.)
2. The permittee shall submit reports to the Director, Tidewater Regional Office within 30 days after the end of each calendar semi-annual period. These reports shall include, but are not limited to, the following information:
 - a. Fuel quality reports. If no shipments of oil were received during the semi-annual period, the semi-annual report shall consist of the dates included in the semi-annual period and a statement that no oil was received during the semi-annual period.
 - b. Annual capacity factor for the No. 2 fuel oil being burned in the auxiliary boiler (049) over the previous 12 months.
 - c. Average fuel nitrogen content during the reporting period, if residual oil (No. 2 fuel oil with a nitrogen content greater than 0.05 weight percent) is fired.(9 VAC 5-80-110 and Condition 46 of the 8/20/03 Permit.)
3. The permittee shall furnish written reports to the Director, Tidewater Regional Office of excess emissions from the opacity monitoring via visible emission readings of the auxiliary boiler. This report shall be submitted on a quarterly basis, postmarked no later than the 30th day following the end of the calendar quarter. If there are no excess emissions to report, then the report can be submitted semi-annually. This report shall include, but is not limited to the following information:
 - a. The total time of the visible emission observations during the calendar quarter;
 - b. The duration of any excess emissions. For reporting purposes, excess emission is defined as any 6-minute period during which the average opacity exceeds 20% and the duration is defined as the period of time from the Method 9 observation that first detects the exceedance to the first Method 9 that does not exceed the opacity limit;
 - c. The number of gallons of No. 2 fuel oil burned during the quarter; and

- d. The calculated annual capacity factor as of the end of the quarter. If this annual capacity factor exceeds 10%, the permittee will no longer qualify for this alternate monitoring and must install a Continuous Opacity Monitor.

Copies of this report shall be sent to EPA Region III at the address listed below:

Associate Director
Office of Air Enforcement (3AP10)
U.S. Environmental Protection Agency Region III
1650 Arch Street
Philadelphia, PA 19103-2029

(9 VAC 5-80-110, 40 CFR 60.7(c) and Condition 43 of the 8/20/03 Permit)

4. The permittee shall submit reports to the Director, Tidewater Regional Office within 30 days after the end of each semi-annual period. The report shall include:
 - a. A summary of data collected for all pollutants and parameters regulated under 40 CFR Subpart Eb (as referenced in 40 CFR Subpart Cb), which includes the information specified in paragraphs 60.59b(g)(1)(i) through (g)(1)(v).
 - (i) A list of the particulate matter, opacity, cadmium, lead, mercury, dioxins/furans, hydrogen chloride, and fugitive ash emission levels achieved during the annual performance tests recorded under paragraph 60.59b(d)(9).
 - (ii) A list of the highest emission level recorded for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal waste combustor unit load level, and particulate matter control device inlet temperature based on the data recorded under paragraphs 60.59b(d)(2)(ii)(A) through (d)(2)(ii)(D).
 - (iii) List the highest opacity level measured, based on the data recorded under paragraph 60.59b(d)(2)(i)(A).
 - (iv) The total number of days that the minimum number of hours of data for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal waste combustor unit load, and particulate matter control device temperature data were not obtained based on the data recorded under paragraph 60.59b(d)(6).
 - (v) The total number of hours that data for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal waste combustor unit load, and particulate matter control device temperature were excluded from the calculation of average emission concentrations or parameters based on the data recorded under paragraph 60.59b(d)(7).
 - b. The summary of data reported under paragraph (g)(1) of this section shall also provide the types of data specified in paragraphs 60.59b(g)(1)(i) through (g)(1)(vi) for the calendar year preceding the year being reported, in order to provide the Administrator with a summary of the performance of the affected facility over a 2-year period.
 - c. The summary of data including the information specified in paragraphs 60.59b(g)(1) and (g)(2) shall highlight any emission or parameter levels that did not achieve the emission or parameter limits specified under this subpart.

(9 VAC 5-80-110 and Condition 45 of the 8/20/03 Permit)

D. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Test ports shall be provided when requested in accordance with the applicable performance specification (ref. 40 CFR Part 60, Appendix B) at the appropriate locations.
(9 VAC 5-80-110 and Condition 47 of the 8/20/03 Permit)
2. The permitted facility shall conduct performance testing annually (no less than 9 calendar months and no more than 15 calendar months following the previous performance test) on each boiler (044, 045, 046 and

047). PM and opacity shall be tested in accordance with 60.58b(c), Cadmium, Lead and Mercury shall be tested in accordance with 60.58b(d), SO₂ shall be monitored in accordance with 60.58b(e), HCl shall be tested in accordance with 60.58b(f), NO_x shall be monitored in accordance with 60.58b(h), CO shall be monitored in accordance with 60.58b(i), load level shall be monitored in accordance with 60.58b(i)(6), PM control device temperature shall be monitored in accordance with 50.58b(i)(7). All compliance determinations shall be performed in accordance with 60.38b (and 60.58b as referenced in 60.38b).

(9 VAC 5-80-110 and 40 CFR 60.38b and 60.58b (as referenced in 60.38b))

3. Each boiler (044, 045, 046 and 047) shall utilize the performance testing methods and schedules in section 40 CFR 60.38b of NSPS Subpart Cb except for dioxin/furan testing (See 40 CFR 60.58b(g)(5)(iii)). If annual performance tests for 2 consecutive years on all 4 boilers show dioxin/furan emissions (total mass) below 15 ng/dscm @ 7% O₂, only one boiler (on a rotating basis) per year (no less than 9 calendar months and no more than 15 calendar months following the previous performance test) must be tested. Should any emission performance tests exceed 15 ng/dscm @ 7% O₂, all 4 boilers must be retested each year for 2 consecutive years in order to qualify to test only one boiler per year (on a rotating basis).
(9 VAC 5-80-110, 40 CFR 60.58b(g)(5)(iii) (as referenced by 60.38b(b)) and Condition 39 of the 8/20/03 Permit)
4. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

IV. Coal Handling Operations

Emissions units associated with this section are the open coal storage (048), coal conveying and transfer points (101-108).

A. Limitations

1. Fugitive coal dust emission controls shall include the following, or equivalent, as a minimum:
 - a. Dust from material handling (car unloading hopper, coal pile reclaimers), coal pile, and load-outs (coal ash loadout), shall be controlled by a permanently installed wet suppression system.
 - b. All material being stockpiled shall be kept adequately moist to control dust during storage and handling or covered at all times to minimize emissions.
 - c. Dust from haul roads and traffic areas shall be controlled by the application of asphalt, water, suitable chemicals, or equivalent methods approved by the DEQ.
 - d. Dust from the coal silos, bins and conveyor belts shall be controlled by fabric filters.
2. Fugitive dust emissions from the operation of coal handling and storage shall not exceed the limits specified below:

Particulate Matter

9.5 lbs/hr

26.5 tons/yr

These emissions are derived from the estimated overall emission contribution and are included for emission inventory purposes. Compliance shall be determined as stated in Conditions A.1 and B.2 of this section.

(9 VAC 5-80-110 and Condition 31 of the 8/20/03 Permit)

B. Monitoring and Recordkeeping

1. The permittee shall perform periodic visual evaluations on the coal pile once each calendar week and on the conveyors once each calendar week while operating. If such periodic evaluations indicate any opacity condition, the permittee shall take appropriate action to correct the cause of the opacity such that no visible emissions exist. If such corrective action fails to correct the problem, the permittee shall conduct a visible emissions evaluation (VEE) utilizing EPA Method 9 (reference 40 CFR 60, Appendix A). The permittee shall maintain a log to demonstrate compliance with this condition. The log shall include the date and time of the observations, the observer's name, whether or not there was visible emissions, any VEE recordings and any necessary corrective action. If the equipment has not been operated during the week, it shall be noted in the logbook that the equipment was not operated and that a visual observation was not required. The logbook shall be kept at the facility and available for inspection by the DEQ for the most recent 5 year period.
(9 VAC 5-80-110 E)
2. The permittee shall perform monthly evaluations of the coal pile wet suppression system (048) to verify that the system is in proper working order. The permittee shall maintain a log to demonstrate compliance with this condition. The log shall include the date and time of the observations, the observer's name, what parameters are checked, and whether the system was functioning properly. The logbook shall be kept at the facility and available for inspection by the DEQ for the most recent 5 year period.
(9 VAC 5-80-110)
3. The differential pressure gauge used to continuously measure the pressure drop across the fabric filters shall be monitored (while the fabric filters are operating) by the permittee on a monthly basis to ensure good performance of the fabric filter. The permittee shall maintain a log to demonstrate compliance with this condition. The log shall include the date and time of the observations, the observer's name, the pressure drop and any corrective action taken. The logbook shall be kept at the facility and available for inspection by the DEQ for the most recent 5 year period.
(9 VAC 5-80-110)
4. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to the records of visual evaluations, visible emissions evaluations and any corrective action taken. These records shall be available on site for inspection by the DEQ and shall be current for the most recent 5 years.
(9 VAC 5-80-110)

C. Testing

1. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

V. RDF Handling Operations

The emission units associated with this section of the permit are 200, 201, 202 and 203.

A. Limitations

1. Particulate emissions from the process lines will be controlled by a fabric filter system. Particulate emissions from the bulky waste shredder shall be controlled by fabric filters. The fabric filters shall be provided with adequate access for inspection. Each fabric filter shall be equipped with a device to continuously measure the differential pressure drop across the fabric filter. Each device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.
(9 VAC 5-80-110 and Condition 6 of the 5/29/96 Permit)
2. The annual RDF plant throughput of unprocessed solid waste shall not exceed 1.5 million tons per year. The annual throughput shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-110 and Condition 3 of the 5/29/96 Permit)
3. The annual throughput of the processed solid waste, including bulky waste, shall not exceed 1.2 million tons per year. The annual throughput shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-110 and Condition 4 of the 5/29/96 Permit)
4. Solid waste for the purpose of this permit, shall be processable solid waste consisting of all materials customarily referred to as garbage, refuse and discarded materials, but excluding material which, because of its quantity or concentration of physical, chemical or infectious characteristics may pose substantial hazard to human health or the environment. Southeastern Public Service Authority shall assure that hazardous waste is not delivered to the RDF boilers. Details of these prevention procedures shall be submitted in writing for verification and approval to the Director, Tidewater Regional Office prior to commencing operation.
(9 VAC 5-80-110 and Condition 5 of the 5/29/96 Permit)
5. Visible emissions from the bulky waste shredder fabric filter shall not exceed 10% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-80-110 and Condition 12 of the 5/29/96 Permit)
6. Visible emissions from processes lines' fabric filter shall not exceed 10% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-80-110 and Condition 13 of the 5/29/96 Permit)

B. Monitoring and Recordkeeping

1. The permittee shall perform periodic visual evaluations of the vents from the fabric filters once each calendar week. If such periodic evaluations indicate any opacity condition, the permittee shall take appropriate action to correct the cause of the opacity such that no visible emissions exist. If such corrective action fails to correct the problem, the permittee shall conduct a visible emissions evaluation (VEE) utilizing EPA Method 9 (reference 40 CFR 60, Appendix A). The permittee shall maintain a log to demonstrate compliance with this condition. The log shall include the date and time of the observations, the observer's name, whether or not there was visible emissions, any VEE recordings and any necessary corrective action. If the equipment has not been operated during the week, it shall be noted in the logbook that the equipment was not operated and that a visual observation was not required. The logbook shall be kept at the facility and available for inspection by the DEQ for the most recent 5 year period.
(9 VAC 5-80-110 E)
2. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
 - a. Annual throughput of unprocessed waste in tons for the RDF plant. Annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.
 - b. Annual throughput of processed waste in tons for the RDF plant. Annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.
 - c. Records of visual evaluations, visible emissions evaluations and any corrective action taken.

Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. These records shall be available on site for inspection by the DEQ and shall be current for the most recent 5 years.

(9 VAC 5-80-110 and Condition 15 of 5/29/96 Permit)

C. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-80-110 and Condition 7 of the 5/29/96 Permit)
2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

VI. Lime Silo Requirements and Miscellaneous Equipment

The equipment associated with this section of the permit is the Lime Silo (112), the Ash conveying system (111), Truck traffic at the steam plant (113), Truck Traffic at the RDF Waste Plant (206), the RDF Fire Pump Diesel Engine (207) and the SPP Fire Pump Diesel Engine (128).

A. Limitations

1. Particulate emissions from the lime silo (112) shall be controlled by a fabric filter. The fabric filter shall be provided with adequate access for inspection and shall be in operation when the lime silo is being filled.
(9 VAC 5-80-110 and Condition 4 of 8/20/03 Permit)
2. The lime silo fabric filter shall be equipped with devices to continuously measure the differential pressure drop across the fabric filter. Each monitoring device shall be installed and maintained in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or good operating practice.
(9 VAC 5-80-110 and Condition 6 of 8/20/03 Permit)
3. The throughput of lime shall not exceed 11,000 tons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-110 and Condition 11 of 8/20/03 Permit)
4. Fugitive dust emission controls shall include the following, or equivalent, as a minimum:
 - a. Dust from ash handling (111), and the ash load-out, shall be controlled by a permanently installed wet suppression system.
 - b. All material being stockpiled shall be kept adequately moist to control dust during storage and handling or covered at all times to minimize emissions.
 - c. Dust from haul roads and traffic (113, 206) areas shall be controlled by the application of asphalt, water, suitable chemicals, or equivalent methods approved by the DEQ.
(9 VAC 5-80-110)
5. Visible emissions from the ash conveying system shall not exceed 5% opacity as determined by EPA Method 22 (reference 40 CFR 60, Appendix A). This condition applies at all times except during maintenance and repair.
(9 VAC 5-80-110, 40 CFR 60.55b(a) (referenced by 40 CFR 60.36b) and Condition 37 of the 8/20/03 Permit)
6. Visible emissions from the RDF fire pump diesel engine (207) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-50-80 and 9 VAC 5-80-110)
7. Visible emissions from the lime silo fabric filter shall not exceed 5% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 10% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-110 and Condition 36 of 8/20/03 Permit)

8. Visible emissions from the SPP fire pump diesel engine (128) shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-50-80 and 9 VAC 5-80-110)

B. Monitoring and Recordkeeping

1. The permittee shall perform periodic visual evaluations of each unit (111, 112, 207 and 128) once each calendar week when the units are operating. If such periodic evaluations indicate any opacity condition, the permittee shall take appropriate action to correct the cause of the opacity such that no visible emissions exist. If such corrective action fails to correct the problem, the permittee shall conduct a visible emissions evaluation (VEE) utilizing EPA Method 9 (reference 40 CFR 60, Appendix A). The permittee shall maintain a log to demonstrate compliance with this condition. The log shall include the date and time of the observations, the observer's name, whether or not there was visible emissions, any VEE recordings and any necessary corrective action. If the equipment has not been operated during the week, it shall be noted in the logbook that the equipment was not operated and that a visual observation was not required. The logbook shall be kept at the facility and available for inspection by the DEQ for the most recent 5 year period.
(9 VAC 5-80-110 E)
2. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
 - a. Monthly and annual throughput of lime to the storage silo. Annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.
 - b. Records of visible evaluations, visible emission evaluations and any corrective action taken.

Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. These records shall be available on site for inspection by the DEQ and shall be current for the most recent 5 years.

(9 VAC 5-80-110 and Condition 42 of 8/20/03 Permit)

C. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing and monitoring upon reasonable notice at any time, using appropriate methods. Test ports shall be provided when requested in accordance with the applicable performance specification (ref. 40 CFR Part 60, Appendix B).
(9 VAC 5-50-30 F and 9 VAC 5-80-110 and Condition 47 of 8/20/03 Permit)
2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

VII. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
109	55,000 Gallon Storage Tank - #2 Fuel Oil	9 VAC 5-80-720 B	VOC	
110	55,000 Gallon Storage Tank - #2 Fuel Oil	9 VAC 5-80-720 B	VOC	
114	Turbine Generator Lube Oil Storage Reservoir No. 1	9 VAC 5-80-720 B	VOC	1500 gallons
115	Turbine Generator Lube Oil Storage Reservoir No. 2	9 VAC 5-80-720 B	VOC	1500 gallons
116	Turbine Generator Lube Oil Storage Reservoir No. 3	9 VAC 5-80-720 B	VOC	1500 gallons
117	Diesel Generator Lube Oil Reservoir	9 VAC 5-80-720 C		250 gallons
118	Waste Oil Bowser No. 1	9 VAC 5-80-720 C		600 gallons
119	Diesel Fuel Tank	9 VAC 5-80-720 B	VOC	500 gallons
120	Diesel Fuel Tank	9 VAC 5-80-720 B	VOC	275 gallons
121	Diesel Fuel Tank	9 VAC 5-80-720 B	VOC	275 gallons
122	Lube Oil Tank	9 VAC 5-80-720 C		275 gallons
123	Lube Oil Tank	9 VAC 5-80-720 C		275 gallons
124	Lube Oil Tank	9 VAC 5-80-720 C		275 gallons
125	Lube Oil Tank	9 VAC 5-80-720 C		80 gallons
126	Lube Oil Tank	9 VAC 5-80-720 C		80 gallons
129	SPP Fire Pump Fuel Oil Tank	9 VAC 5-80-720 B	VOC	80 gallons
130	Liquid Waste Tank	9 VAC 5-80-720 B	VOC	8500 gallons
131	Liquid Waste Tank	9 VAC 5-80-720 B	VOC	8500 gallons
132	Liquid Waste Tank	9 VAC 5-80-720 B	VOC	1500 gallons
204	#2 Fuel Oil Storage Tank	9 VAC 5-80-720 B	VOC	20,000 gallons
205	#2 Fuel Oil Storage Tank	9 VAC 5-80-720 B	VOC	20,000 gallons
208	Motor Oil Storage Tank	9 VAC 5-80-720 B	VOC	
209	Hydraulic Oil Storage Tank	9 VAC 5-80-720 B	VOC	
210	Waste Oil Storage Tank	9 VAC 5-80-720 B	VOC	
211	Fire Pump Fuel Oil Storage Tank	9 VAC 5-80-720 B	VOC	500 gallons
212	Hydraulic Oil Storage Tank	9 VAC 5-80-720 C		250 gallons
213	Hydraulic Oil Storage Tank	9 VAC 5-80-720 C		500 gallons
214-219	RDF Roof Top Building Air Heaters	9 VAC 5-80-720 C		1.4 MMBtu/hr
220	RDF Roof Top Building Air Heater	9 VAC 5-80-720 C		0.7 MMBtu/hr
221	RDF Water Heater	9 VAC 5-80-720 C		0.2 MMBtu/hr
222	RDF Boiler	9 VAC 5-80-720 C		0.9 MMBtu/hr
223	Operations Roof Top Building Air Heater	9 VAC 5-80-720 C		0.4 MMBtu/hr
224-231	Operations Truck Maintenance Area Heater	9 VAC 5-80-720 C		0.06 MMBtu/hr
232-242	Operations Truck Maintenance Area Heaters	9 VAC 5-80-720 C		0.03 MMBtu/hr
243	Operations Hot Water Heater	9 VAC 5-80-720 C		0.2 MMBtu/hr
244-246	Truck Wash Area Heaters	9 VAC 5-80-720 C		0.06 MMBtu/hr
247	Truck Wash Area Heater	9 VAC 5-80-720 C		0.3 MMBtu/hr

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
248	Truck Wash High Pressure Spray Heater	9 VAC 5-80-720 C		0.4 MMBtu/hr
249	Transportation Roof Top Building Area Heater	9 VAC 5-80-720 C		0.2 MMBtu/hr
250	Transportation Hot Water Heater	9 VAC 5-80-720 C		0.3 MMBtu/hr

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

(9 VAC 5-80-110 and 9 VAC 5-80-720)

VIII. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR Part 60 Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	For the RDF boilers (044, 045, 046 and 047) - The auxiliary burners used to fire fuel oil are rated at 87 mmBtu/hr and do not meet the applicability criteria in 60.40b(3).
9 VAC 5 Chapter 40 Article 4	Emission Standards For General Process Operations	For Unit 207 - This rule does not apply to internal combustion engines.
9 VAC 5 Chapter 40 Article 8	Emission Standards For Fuel Burning Equipment	For Unit 207 - This rule does not apply to internal combustion engines.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.

(9 VAC 5-80-140)

IX. General Conditions

A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.

(9 VAC 5-80-110 N)

B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit,
 - a. the previous permit shall not expire until the renewal permit has been issued or denied and
 - b. all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.

f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)

2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

(9 VAC 5-80-110 F)

3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.

- b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:

- (i) Exceedance of emissions limitations or operational restrictions;

- (ii) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,

- (iii) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9 VAC 5-80-110 F)

D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
2. The identification of each term or condition of the permit that is the basis of the certification.
3. The compliance status.
4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
6. Such other facts as the permit may require to determine the compliance status of the source.

7. One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)
U.S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall notify the Director, Tidewater Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition IX.C.3 of this permit.

(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Tidewater Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Tidewater Regional Office.

(9 VAC 5-20-180 C)

1. The emission units that have continuous monitors subject to 9 VAC 5-50-50 C are not subject to the 14 day written notification.
2. The emission units subject to the reporting and the procedure requirements of 9 VAC 5-50-50 C are the RDF boilers (044, 045, 046 and 047).
3. Each owner required to install a continuous monitoring system (CMS) or monitoring device subject to 9 VAC 5-50-410 shall submit a written report of excess emissions (as defined in the applicable subpart in 9 VAC 5-50-410) and either a monitoring systems performance report or a summary report form, or both, to the board quarterly. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter. All reports shall include the following information:
 - a. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factors used, and the date and time of commencement and completion of each period of excess emissions;
 - b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the source. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted;
 - c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and

- d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in the report.

All malfunctions of emission units not subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C require written reports within 14 days of the discovery of the malfunction.]

(9 VAC 5-20-180 C, and 9 VAC 5-50-50)

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.

(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.

(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(9 VAC 5-80-110 G.3)

J. Permit Modification

A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.

(9 VAC 5-80-190 and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.

(9 VAC 5-80-110 G.5)

L. Duty to Submit Information

1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.

(9 VAC 5-80-110 G.6)

2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.

(9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions

covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.

(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-50-90)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20 E)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.

(9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

R. Reopening For Cause

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)
2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30

days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.
2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
 - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
 - d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.
3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.

(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.

(9 VAC 5-80-190 C and 9 VAC 5-80-260)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.

(40 CFR Part 82, Subparts A-F)

Y. Asbestos Requirements

The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).

(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)

Z. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.

(40 CFR Part 68)

AA. Changes to Permits for Emissions Trading

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

(9 VAC 5-80-110 I)

BB. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)

X. State-Only Enforceable Requirements

The following terms and conditions are not required under the federal Clean Air Act or under any of its applicable federal requirements, and are not subject to the requirements of 9 VAC 5-80-290 concerning review of proposed permits by EPA and draft permits by affected states.

1. Odor - 9 VAC 5 Chapter 40, Article 2 and 9 VAC 5 Chapter 50, Article 2.
2. State toxics rule - 9 VAC 5 Chapter 40, Article 3 and 9 VAC 5 Chapter 50, Article 3.

(9 VAC 5-80-110 N and 9 VAC 5-80-300)